



MATERIAL SAFETY DATA SHEET

ALSAN RS LIQUID THIXO

HMIS	PROTECTIVE CLOTHING	TRANSPORT OF DANGEROUS GOODS								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #0056b3; color: white;"> <td style="text-align: center; padding: 2px;">2</td> <td style="padding: 2px;">HEALTH</td> </tr> <tr style="background-color: #ff0000; color: white;"> <td style="text-align: center; padding: 2px;">2</td> <td style="padding: 2px;">FLAMMABILITY</td> </tr> <tr style="background-color: #ff8c00; color: white;"> <td style="text-align: center; padding: 2px;">0</td> <td style="padding: 2px;">REACTIVITY</td> </tr> <tr style="background-color: #cccccc;"> <td style="text-align: center; padding: 2px;">G</td> <td style="padding: 2px;">PROTECTIVE EQUIPMENT</td> </tr> </table>	2	HEALTH	2	FLAMMABILITY	0	REACTIVITY	G	PROTECTIVE EQUIPMENT		<p>NOT REGULATED</p>
2	HEALTH									
2	FLAMMABILITY									
0	REACTIVITY									
G	PROTECTIVE EQUIPMENT									

SECTION II. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name:	Alsan RS 222 Primer	
Product number:	L-RS019	
Use:	Liquid thickening agent	
Manufacturer:	Soprema S.A. 14, rue de Saint Nazaire - BP 121 F-67025 Strasbourg CEDEX 1 France	
Distributor:	Soprema, Inc. 310 Quadral Drive Wadsworth, Ohio 44281 UNITED STATES	
In case of emergency:	SOPREMA (8:00am to 5:00pm - Eastern time): (800) 356-3521 CHEMTREC (USA) (24h.): (800) 424-9300 CANUTEC (Canada): (613) 996-6666 International: (703) 527-3887	

EMERGENCY OVERVIEW!!!
COMBUSIBLE; HARMFUL IF INHALED OR SWALLOWED; CAUSES SKIN AND EYE IRRITATION

SECTION II. COMPOSITION AND INFORMATION ON DANGEROUS INGREDIENTS

Component	CAS#	% by weight	ACGIH TLV
N-Methyl-2-pyrrolidone	872-50-4	> 25 < 50	400 mg/m ³ (400 ppm) German MAK
Lithium chloride	7447-41-8	< 3	n/a
TSCA: all ingredients are listed			

SECTION III. POTENTIAL HEALTH EFFECTS

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE: This product is toxic when inhaled or ingested and can cause skin, eye and respiratory irritation. Inhalation of vapors may lead to headache, drowsiness and dizziness.

This product contains:

N-Methyl-2-pyrrolidone, which may cause severe skin and eye irritation. Inhalation of vapors may lead to headache, drowsiness and dizziness. RTECS lists animal studies showing adverse reproductive effects on injection.

Lithium chloride, which is a skin and eye irritant. Ingestion of large amounts may cause diarrhea and vomiting as well as blurred vision and general weakness.

CARCINOGENICITY:

NTP.....: No

IARC.....: No

OSHA.....: No

SECTION IV. FIRST AID MEASURES

SKIN	Remove contaminated clothing and shoes. Wash with soap or mild detergent and large amounts of water. Do not use solvents or thinners. Get medical attention if irritation occurs. Wash clothing before re-use.
EYES	Hold eyes open and flush for at least 15 minutes with large amounts of water. Seek medical attention.
INHALATION	Remove to fresh air immediately. If breathing has stopped give artificial respiration. If breathing is difficult administer oxygen. Consult physician if irritation of respiratory passage occurs.
INGESTION	Do not induce vomiting. Give two glasses of water to dilute stomach contents. Never give anything by mouth to an unconscious person. Consult physician immediately.

SECTION V. FIRE-FIGHTING MEASURES

Flash point	196 °F (91 °C - N-methyl-2-pyrrolidone)
Explosive limits	Upper: 9.5 %; Lower: 1.3 (by volume)
Ignition temperature	473 °F (245 °C)
Extinguishing media	Foam, carbon dioxide, or high pressure water spray. Use water spray only to cool containers in fire area.
Special fire fighting procedures	Use self-contained breathing apparatus and full protective clothing.

SECTION VI. ACCIDENTAL RELEASE MEASURES**RELEASE OR SPILL:**

Wearing appropriate personal protective equipment, contain spills onto inert absorbent and place in suitable containers.

SECTION VII. HANDLING AND STORAGE**HANDLING:**

Do not smoke. Keep away from open fire, flame or any ignition source. Vapors may form explosive mixtures with air. Avoid skin and eye contact. Avoid breathing fumes. Do not eat, drink or smoke in application area.

STORAGE:

Store closed containers in cool, dry area away from heat, direct sunlight, oxidizing agents, and strong acids and alkalis. Keep away from open fire, flame or any ignition source. Keep in well ventilated areas.

SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

HANDS	Clothing suitable to prevent skin contact. Use butyl rubber gloves and apply barrier creams. Do not use PE or PVC gloves as these materials absorb acrylates. Check suitability recommendations by protective equipment manufacturers, especially towards chemical breakthrough resistance.
RESPIRATORY	If airborne concentration poses a health hazard, becomes irritating or exceeds recommended limits, use a NIOSH approved respirator in accordance with OSHA Respirator Protection requirements under 29 CFR 1910.134.
EYES	Safety goggles with side shields.
ENGINEERING CONTROLS	Use local exhaust ventilation or respiratory protection to maintain employee exposure below TLV.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	Liquid
COLOR	Yellowish transparent
ODOR	None
IGNITION POINT	approx. 473 °F (245 °C)
FLASH POINT	196 °F (91 °C)
BOILING POINT	> 392 °F (200 °C)
VAPOR PRESSURE	> 50 mbar
VISCOSITY	Efflux time approx 30 sec. @ 68°F (20 °C - DIN beaker, 6 mm opening) (approx. 5 dPas)
SOLUBILITY IN WATER	Insoluble
DENSITY	1.1 g/cm ³ @ 68°F (20 °C)

SECTION X. STABILITY AND REACTIVITY**STABILITY:**

Stable

INCOMPATIBILITY:

Avoid strong acids, bases, and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide, oxides of nitrogen, hydrocarbon by-products, and black smoke.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION XI. TOXICOLOGICAL INFORMATION

Route of Entry

skin contact skin accumulation eyes ingestion inhalation

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE: This product is toxic when inhaled or ingested and can cause skin, eye and respiratory irritation. Inhalation of vapors may lead to headache, drowsiness and dizziness.

LD₅₀ oral, rat for N-methyl-2-pyrrolidone: 3914 mg/kg

This product contains:

N-Methyl-2-pyrrolidone, which may cause severe skin and eye irritation. Inhalation of vapors may lead to headache, drowsiness and dizziness. RTECS lists animal studies showing adverse reproductive effects on injection.

Lithium chloride, which is a skin and eye irritant. Ingestion of large amounts may cause diarrhea and vomiting as well as blurred vision and general weakness.

CARCINOGENICITY:

NTP.....: No

IARC.....: No

OSHA.....: No

SECTION XII. ECOLOGICAL INFORMATION

Environmental effects:

Avoid contamination of ground water or waterways.

SECTION XIII. DISPOSAL CONSIDERATIONS

Waste disposal:

Incinerate or dispose of in accordance with Federal, State or Local regulations.

SECTION XIV. TRANSPORTATION INFORMATION

NOT REGULATED

SECTION XV. REGULATORY INFORMATION

All components of this product are on the TSCA Inventory.

SECTION XVI. OTHER INFORMATION

Glossary:

ACGIH: American Conference of Governmental Industrial Hygienists
ANSI: American National Standards Institute
ASTM: American Society for Testing and Materials
CAS: Chemical Abstract Services
CFR: Code of Federal Regulations (United States)
CSA: Canadian Standardisation Association
DOT: Department of Transportation (United States)
DSL: Domestic Substances List (Canada)
EPA: Environmental Protection Agency (United States)
HMIS: Hazardous Material Information System
IARC: International Agency for Research on Cancer
LC50: (Lethal concentration₅₀) Concentration of a substance in air that causes death of 50% mortality of a defined animal population
LD50: (Lethal dose₅₀) Single dose of a substance that, when administered by a defined route in an animal assay, is expected to cause the death of 50% of a defined animal population.
NFPA: National Fire Protection Association (United States)
NIOSH: National Institute for Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety & Health Administration (United States)
PEL: Permissible Exposure Limit
RCRA: Resource Conservation and Recovery Act (United States)
RTECS: Registry of Toxic Effects of Chemical Substances
TDG: Transportation of Dangerous Goods
TLV: Threshold Limit Value
TWA: Time-weighted average
TSCA: Toxic Substances Control Act (United States)
WHMIS: Workplace Hazardous Materials Information System (Canada)

Reference:

Supplier MSDS

This MSDS has been prepared by: SOPREMA, INC.
For information: 800-543-3085

The Material Safety Data Sheets of SOPREMA are available on Internet at the following site: [HTTP://WWW.SOPREMA.US](http://WWW.SOPREMA.US)

Justification of the update:

New MSDS.

This MSDS contains all the information required by ANSI Z-400.1-1998 standard (United States), by regulation 29 CFR Part 1910.1200 of the Hazard Communication Standard of OSHA, and is in accordance with standard DORS/88-66 OF WHMIS Canada.

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